

SONY®

White paper

January 2014



Xperia™ SP
M35c

Purpose of this document

Sony product White papers are intended to give an overview of a product and provide details in relevant areas of technology.

Document history

Version

March 2013	First released version	Version 1
August 2013	Second released version	Version 2
January 2014	Third released version	Version 3

Sony Mobile Developer World

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This White paper is published by:

Sony Mobile Communications AB,
SE-221 88 Lund, Sweden

www.sonymobile.com

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First released version (January 2014)
Publication number: 1271-7654.1

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Table of contents

Product overview	2
Xperia™ SP – Experience the brilliance of Sony inside and out	2
Signature features	4
Facts – dimensions, weight, performance and networks	5
Categorised feature list	7
Technologies in detail	9
Device-to-device communications (local)	9
Bluetooth™ wireless technology	9
Wi-Fi®	10
DLNA Certified® (Digital Living Network Alliance).....	11
Messaging	12
MMS (Multimedia Messaging Service).....	12
Email	12
Positioning – location based services	13
Provisioning (OMA CP)	13
Multimedia (audio, image and video)	14
Synchronisation (OMA DS, EAS)	15
Memory in Android™ phones	16
Trademarks and acknowledgements	19

Product overview

Xperia™ SP – Experience the brilliance of Sony inside and out

High definition entertainment in a premium design.

Xperia™ SP has the looks of a true design connoisseur's smartphone. The super-sharp HD screen covers almost the entire front. It stays spectacularly black when off, turns vibrantly colourful when on. This phone runs on the latest Android platform, and it's got all you need for moment-catching too. The 8 megapixel camera goes from sleep to snap in less than a second. Feel a still's not enough? Shoot scenes and scenery in beautiful HD video. You'll get a perfect result every time. It's a wrap? Then easily view it all on your TV via one-touch sharing.

Beauty well crafted

How would you define quality? To add that extra touch of you-style, try the customisable illuminations. They notify you of events, Facebook updates and more. And give that extra oomph to your music and pictures.

Closer to reality

Lost in the woods, wolfpack closing in. On the pitch, dodging that sliding tackle. Xperia™ SP's 4.6" HD screen is so vivid you feel you're in the middle of it all - no matter what you're viewing. The Reality Display is powered by Mobile BRAVIA® Engine 2. That means razor sharp images, vibrant colours and the enhanced contrast you recognize from Sony TV's.

Easy connectivity with one-touch functions

The NFC-enabled smartphone lets you share pictures with other phones in a single touch. Or you can touch your Xperia™ SP to a Bluetooth™ speaker and listen to music saved on the phone.

Share your phone screen on a TV

You can play your videos on a big screen by connecting a standard HDMI cable to your HDTV using an MHL adapter* or a compatible TV Dock* accessory. If you prefer to go wireless, you can use the Screen Mirroring** feature to share content from your phone via the TV. With the touch of a button, you can watch your selected photo pop up on the TV screen or listen to the current music track play on the TV's speakers.

Snap and shoot – anytime, any light

Getting dark? Don't let that stop you. The Exmor RS™ for mobile sensor gives you radiant pictures even in low light. No need to worry about getting the camera settings right either. Superior Auto mode helps you to that perfect picture without further ado - noise reduction is automatically activated when needed.

Music the way you want it

Ragga, grime or boy bands? With the "WALKMAN" app, you customise your music experience as you please. Create your own playlists and listen in Soul shaking clarity with Clear Audio+*** and xLoud loudness enhancement. Can't get enough? Go further into Music Unlimited and choose from millions of songs. When you've found the right track, crank it up and get the sound just right with graphic equalisers. Or connect to wireless speakers with just a touch and use your smartphone as the ultimate DJ deck.

* Separate accessory, not included.

** Your TV must support screen mirroring based on Wi-Fi CERTIFIED Miracast™ for the screen mirroring feature to work. If your TV does not support such screen mirroring, you need to purchase a wireless display adapter separately. When using screen mirroring, the image quality may sometimes be negatively impacted if there is interference from other Wi-Fi networks.

*** Requires Clear Audio+ certified headset.

Signature features

The Sony Xperia™ SP comes with a range of features as standard. Below is a summary of the key signature features.

Xperia™ Local connectivity

More control over your media

Using Local connectivity, you can exercise more control over how media files get transferred and stored.

Xperia™ Home screen application

The place you call Home

Customise your Home screen with widgets, shortcuts, folders, themes, wallpaper and other items.

Where's best for you? Email top right? Music player bottom left? You decide. With six extensions to your Home screen, you've got plenty of space to put things where you want. Just remember to flick left or right to find them.

Xperia™ Socialife™*

Use the Socialife™ application from Sony to get your favorite news, videos and social networking feeds in one place. It colour-codes and sizes articles for easy reading, adding photos and cropping images of your friends' faces to illustrate each story.

* This service is not available in all markets.

Facts – dimensions, weight, performance and networks

Operating system	Google™ Android™ 4.1 (Jelly Bean)
Processor	1.7 GHz Qualcomm MSM8660A-1-AB Dual Core
GPU	Adreno 320
Size	130.6x67.1x9.98 mm
Weight	155 grams
Available colours	Apricot Black White
SIM card	Two micro-SIM slots
Main screen	
Colours	16,777,216 colour TFT
Resolution	1280x720 pixels
Size (diagonal)	4.6 inches
Scratch-resistant	Corning™ Gorilla™ glass
Input mechanisms	
Text input	On-screen QWERTY keyboard
Touch screen	Capacitive
Touch gesture	Yes – multi-touch, up to 10 fingers supported
Memory	
RAM	1 GB
Flash memory	Up to 16 GB*
Camera	
Camera resolution	8 MP
Digital zoom	16x
Photo light	Yes – Pulsed LED
Video recording	Yes – HD 1080p
Front Camera	Yes – VGA
Sensors	
Accelerometer	Yes
Proximity sensor	Yes
Ambient light sensor**	Yes

Magnetometer	Yes
Gyroscope	Yes
Networks	
M35c	CDMA 1X EVDO Rev. A 800M (BC0), 1900M (BC1) 1st GSM EDGE 850, 900, 1800, 1900 MHz 2nd GSM 900, 1800, 1900 MHz
Data transfer speeds	
GSM EDGE	Up to 237 kbps
EVDO Rev.A (upload)	Up to 1.8 Mbps
EVDO Rev.A (download)	Up to 3.1 Mbps
Hearing Aid Compatibility (HAC)	
M-Rating	M3
Talk time (1st GSM)	Up to 10 hours and 42 Mins***
Standby time (1st GSM)	Up to 487 hours***
Talk time (2nd GSM)	Up to 10 hours***
Standby time (2nd GSM)	Up to 550 hours***
Talk time (CDMA 2000)	Up to 16 hours and 48 Mins***
Standby time (CDMA 2000)	Up to 411 hours and 30 Mins***
Standby time (CDMA 2000 + 2nd GSM)	Up to 265 hours***
Standby time (1st GSM + 2nd GSM)	Up to 379 hours and 48 Mins***
Music listening time	Up to 37 hours and 36 Mins***
Video playback time	Up to 6 hours***
Battery (Embedded)	2370 mAh typical 2300 mAh minimum

* Memory comprises of approximate 4 GB firmware and 12 GB “Internal storage” for music, pictures and movies, and downloaded applications and their data, for more details of memory, See “Memory in Android™ phones” on page 16.

** There is no API for the light sensor.

*** Values are according to GSM Association Battery Life Measurement Technique as performed in controlled laboratory conditions. Actual time may vary.

NOTE: Battery performance may vary depending on network conditions and configurations, and phone usage.

NOTE: Performance metrics measured under laboratory conditions.

Categorised feature list

 <p>Camera</p> <ul style="list-style-type: none"> 8 megapixel camera 16x digital zoom Auto focus Face detection Fast capture Flash/Pulsed LED Flash/Photo light Front-facing camera (VGA) Geotagging HD video recording (1080p) HDR for picture Image stabiliser Red-eye reduction Scene recognition Self-timer Send to web Smile shutter™ Superior auto Sony Exmor RS™ for mobile image sensor Sweep Panorama Touch focus 	 <p>Music</p> <ul style="list-style-type: none"> 3D Surround Sound (VPT) Album art Bluetooth™ stereo (A2DP) Clear bass Clear Phase™ Clear stereo Dynamic normalizer Music tones (MP3/AAC) PlayNow™ service* TrackID™ music recognition* “WALKMAN” application xLoud™ Experience 	 <p>Internet</p> <ul style="list-style-type: none"> Baidu Search-TianYi* Baidu for Sony* Google Play™* Google™ search* Google Voice™ Search* Pan & zoom QQ Browser* Sony Store* WAP 2.0 Web browser (WebKit™)
 <p>Communication</p> <ul style="list-style-type: none"> Blacklist Call list Dual SIM Dual Active* Google Talk™ application* HD Voice Mobile QQ* Noise suppression Polyphonic ringtones Xperia™ Socialife™* Sina Weibo* Speakerphone 	 <p>Messaging</p> <ul style="list-style-type: none"> Conversations Email Handwriting recognition Instant messaging* Multimedia messaging (MMS) Predictive text input Sound recorder Text messaging (SMS) 	 <p>Design</p> <ul style="list-style-type: none"> Auto rotation Battery STAMINA mode Gesture input Glove mode Light effects On-screen QWERTY keyboard Sony Mobile BRAVIA® Engine 2 Screenshot capturing Throw Touch screen Transparent frame Wallpapers Voice input

* This service is not available in all markets.

		
<p>Entertainment</p> <p>3D games Media browser Motion gaming Radio (FM radio with RDS) Sony Entertainment Network* TV launcher Video streaming</p>	<p>Organiser</p> <p>Airplane mode Alarm clock Calculator Contacts eCompass™ Lunar Calendar* Notes Setup guide Stopwatch Tasks Timer</p>	<p>Connectivity</p> <p>3.5 mm audio jack (CTIA) Bluetooth™ 4.0 wireless technology DLNA Certified® GLONASS* GPS ONE* MHL support Media Go™ Media Transfer Protocol support Micro USB support Native USB tethering NFC PC Companion Screen mirroring Synchronisation via Exchange ActiveSync® Synchronisation via SyncML™ USB charging USB High speed 2.0 support Xperia Link™ Wi-Fi® Wi-Fi® Hotspot functionality</p>

* This service is not available in all markets.

Technologies in detail

NOTE: The information outlined below is general and levels of compliance to standards and specifications may vary between products and markets. For more information, contact Sony Mobile Developer World or your Sony contact person where applicable.

Device-to-device communications (local)

Bluetooth™ wireless technology

Bluetooth™ profiles supported	Advanced Audio Distribution Profile v1.2 Audio/Video Remote Control Profile v1.0 Handsfree Profile v1.6 (Wide band speech) Headset Profile v1.1 Object Push Profile v1.1 Phonebook Access Profile v1.0 Message Access Profile Host Interface Device Profile Health Device Profile 1.1 Generic Attribute Profile Client/Server over LE Proximity Monitor Profile over LE
Core version and supported core features	Version 4.0
Connectable devices	Products supporting at least one of the profiles above. BT4.0 accessories generally require installation of a supporting application.

More information:

www.sonymobile.com/developer

www.bluetooth.com

Wi-Fi®

Supported standards	IEEE 802.11 b/g/n and Wi-Fi® Wi-Fi Direct, Wi-Fi Protected Setup
Connectable devices	Wi-Fi® access points Wi-Fi Direct compatible devices
Frequency band	2.4 GHz
Data transfer rate	Up to 150 Mbit/s
Security	WEP Open Authentication WEP Shared Authentication WPA Personal and WPA2 Personal WPA Enterprise and WPA2 Enterprise EAP-SIM EAP-AKA EAP-TLS EAP-TTLS/MSCHAPv2 PEAPv0/EAP-MSCHAPv2 PEAPv1/EAP-GTC
Encryption	WEP 64 bit, WEP 128 bit, TKIP and CCMP (AES)
Power save	WMM-PS, IEEE-PS
QoS	WMM

DLNA Certified® (Digital Living Network Alliance)

Supported Device Classes	<p>M-DMS – Mobile Digital Media Server Media Types: images, music and video Summary: The digital media server exposes the media files in your phone to a Wi-Fi® network. The files can then be accessed from other DLNA Certified® clients.</p> <p>+PU+ Media Types: image, video and music Summary: Play media in the phone on another device, such as a TV or computer using 2 box push technology. +PU+ is integrated in the Gallery and Music applications.</p> <p>M-DMP – Mobile Digital Media Player Media Types: image, video and music Summary: Play content stored on another device, for example, a server or a PC, directly on the phone.</p> <p>+DN+ Media Types: image, video and music Summary: Download content stored on another device, for example, a server or a PC, and play the downloaded content directly on the phone.</p>
Supported Bearers	Wi-Fi®
DRM Support	The DLNA Certified® implementation does not support DRM-protected content.

Messaging

MMS (Multimedia Messaging Service)

According to OMA Multimedia Messaging Service v1.0 + SMIL

Email

Bearer type (IP)	CDMA 1X, EVDO rev. A, GPRS, EGPRS, WLAN
Character sets	BIG5 Traditional Chinese GB18030 ISO-2022-JP Japanese ISO-8859-1 ISO-8859-2 Eastern Europe ISO-8859-5 Cyrillic ISO-8859-7 Greek ISO-8859-9 Turkish ISO 8859-11 KOI8-R Cyrillic Shift_JIS Japanese USASCII UTF-16 UTF-8 Windows® 874 Windows® 1251 Cyrillic Windows® 1252 Windows® 1254 Turkish Windows® 1258 Vietnamese
Protocols	POP3 and IMAP4
Push email	Microsoft® Exchange ActiveSync® (EAS)
Secure email	SSL/TLS, both port methods (POPS/IMAPS) and START-TLS
HTML mail	Yes (read only)

More information:

www.sonymobile.com/developer

www.openmobilealliance.org

Positioning – location based services

Supported standards:

- OMA Secure User Plane Location (SUPL) v1.0 & v2.0
- 3GPP™ Control Plane location
- Qualcomm® GPSOneXtra™

Supported satellite systems:

- GPS
- GLONASS*

* **NOTE:** GPS and GLONASS are used together to calculate the position. Positioning is more robust and accurate in most conditions, if both systems are active. The benefits of using GLONASS are automatically available for all applications using the Satellite Positioning API (referred to "GPS Provider" in Android terminology).

Provisioning (OMA CP)

OMA CP version 1.1

Multimedia (audio, image and video)

Audio Playback	Decoder format	Supported in file format
	MP3	MP3 (.mp3), AVI (.avi, .xvid)
	AAC LC, HE-AAC v1, HE-AAC v2, AAC ELD	3GPP (.3gp), MP4 (.mp4), MKV (.mkv), MPEG-TS (.ts)
	AMR-NB, AMR-WB	3GPP (.3gp)
	General MIDI (GM)	SMF (.mid)
	Linear PCM, PCM/WAVE 8-bit and 16-bit	WAV (.wav), AVI (.avi), MKV (.mkv)
	Ogg vorbis	Ogg vorbis (.ogg)
	FLAC	FLAC (.flac)
Audio Recording	Encoder format	Supported in file format
	AMR-NB, AMR-WB	AMR (.amr), 3GPP (.3gp)
	AAC-LC	3GPP (.3gp), MPEG4 (.mp4)
Image Playback	Decoder format	Supported in file format
	1, 4, 8, 16, 24 and 32 bpp and RLE encoded formats	BMP (.bmp)
	Single and multi-frame, bitmap mask support (GIF87a format and GIF89a format)	GIF (.gif)
	JPEG	JPEG (.jpg)
	PNG	PNG (.png)
Image Capture	Encoder format	Supported in file format
	JPEG	JPEG (.jpg)
Video Playback	Decoder format	Supported in file format
	MPEG-4 1080p (1920x1080) Advanced Simple Profile Level 5 20 Mbps at 30 fps	3GPP (.3gp), MP4 (.mp4), Matroska (.mkv), AVI (.avi, .xvid)
	H.264 1080p (1920x1080) High Profile Level 4 20 Mbps at 30 fps	3GPP (.3gp), MP4 (.mp4) Matroska (.mkv), MPEG2-TS (.ts, AAC audio)
	H.263 Profile 0 Level 70	3GPP (.3gp), MPEG-4 (.mp4)
	VP8	WebM (.webm), Matroska (.mkv)

Video Recording	Encoder format	Supported in file format
	Video: H.263 Profile 0, H.264 1080p (1920x1080) High Profile Audio: AAC-LC stereo, AMR-NB	3GPP (.3gp), MP4 (.mp4)
Audio/Video Streaming	Streaming transport	RTSP, HTTP / HTTPS, HLS
DRM	DRM (Digital Rights Management) – features the rights and copy protection of downloaded content	OMA DRM 1.0 Widevine DRM L3

Synchronisation (OMA DS, EAS)

OMA Data Synchronisation protocol versions 1.1.2 and 1.2

OMA Data Formats: vCard 2.1, vCalendar 1.0

Microsoft® Exchange ActiveSync® protocol version 2.5

Microsoft® Exchange ActiveSync® protocol version 12

Microsoft® Exchange ActiveSync® protocol version 12.1

Microsoft® Exchange ActiveSync® protocol version 14

Microsoft® Exchange ActiveSync® protocol version 14.1

Related information:

www.sonymobile.com/developer

Memory in Android™ phones

To use Android phones efficiently, users should be aware of the different types of phone memory. This knowledge is important in order to understand, for example, where music, photos and videos are saved; how many apps can be downloaded from Google Play™*; and how photos can be copied to a PC.

The below information is also of interest to developers who wants to make their programs able to make the best possible use of the resources in the phone.

Generally, all Android phones share the same basic memory setup. What differs is how much memory is available to you via the different types of memory, and whether your phone uses an external SD card or an internal memory chip. Any information specific to the particular phone model described in this White Paper is noted as such.

Types of memory

The types of memory described below are consistent with the terminology used in Sony mobile phone menus and in other content relating to 2013 Xperia™ phones:

1. **Dynamic Memory** (also known as RAM) is used by applications that run when the phone is turned on. The amount of Dynamic Memory influences how many applications and operating system services can run at the same time. In Android™, the operating system automatically closes applications and services that are not being used.

However, such automatic functionality has limits. For example, if a lower amount of free RAM is available to applications after a new release of the operating system (due to increased capabilities in the system), phone speed will eventually be impacted (this is the main reason that a certain device cannot be indefinitely upgraded to newer releases of Android™).

If you experience problems with RAM, for example, if the phone runs slower than usual or if the Home application restarts frequently when you leave an application, you should minimize the use of apps that run all the time. Such apps could include, for example, applications that frequently download social service updates. You could also consider using a static wallpaper instead of a live wallpaper.

To see which apps and services are currently active, go to **Settings > Applications > Running Services**. You should have at least 50 MB, and ideally 100 MB or more, of free RAM to avoid slowdowns and application restarts.

You should also be aware that if you update the phone to a later Android release, the load on the built-in Dynamic Memory will increase due to the addition of more features, as mentioned above. As a result, the phone may run slower after an update.

2. **System Memory** (also known as “System partition” or “/system”) is used for the Android OS and for most applications that are pre-loaded from the factory. This type of memory is normally locked, and can only be changed through a firmware upgrade. There is usually some free space available in this section of memory. However, since it is locked, you cannot save apps, photos or any other content to this memory. System Memory is reserved for future firmware upgrades, which almost always need more memory than the original firmware. You cannot see or influence the use of this memory.
3. **Internal Storage** is memory used as “working” memory. It can be compared to the C: drive on a PC or to the startup disk on a Mac.

This memory is used to store all application downloaded from Google Play Store™ (and other sources) and their settings and data (such as emails, messages, calendar events and the like). All applications have an allocated area which no other applications can access and where the application data can be

stored.

Some games also stores content such as games music and level information outside their own designated area; and generally, any application can choose to save their data in locations of their own choosing (outside the protected application settings areas). Generally, such content is not deleted when an application is uninstalled but must be removed manually, by connecting the phone to a computer with a USB cable, or by the use of a file manager application.

Internal Storage is also used for all user content added, for example, as a result of the user taking photos with the camera, downloading media files, and performing file transfers. Typical user content includes:

- photos
- movies
- music
- downloaded documents (as email attachments, for example)

Internal Storage will tend to fill up as a result of normal usage: use of applications saving their data, downloading and installing new applications, downloading free or bought content and taking pictures and movies. Therefore, the larger this memory is from the start, the more applications you can download and use, and the more pictures and movies you can take.

If the Internal Storage starts to get full, the phone slows down, and in some cases it might no longer be possible to install more apps. You should always ensure that you have at least 100 MB of free Phone Memory. If not, you should consider removing some apps that you seldom use, or move content you do not frequently access to safe storage.

You can see approximately how much Internal Storage is free in **Settings > Storage > Internal Storage**. You can also view more detail about how much memory is used by applications in **Settings > Applications > Manage Applications**.

Please note that in Sony Mobile 2013 products, “Internal Storage” is now the union of what was previously known as “Phone Memory” (for applications and their data. “/data”) and “Internal Storage” (for user’s content, “/sdcard”). The reason for this change is to make the use of available memory more flexible, and also to enable the optional encryption of user’s content.

Generally, since most applications expect only a single location of storage, such applications will not generally allow you to SAVE anything to the card (i.e. they will lack an option to choose storage location); however, some applications (for instance, the Sony Mobile “Camera” application) may actually allow you to do so. Other, for example backup applications such as the Sony Mobile “Memory” application, will by definition be configured to copy content from the Internal Storage to the external SD card.

On the other hand, when it comes to READING from an external SD Card, you will be able access content (videos, photos, music) on a memory card inserted in this slot without any special considerations since the Android system searches all available memory for content. Therefore, such products may be regarded as supporting a fourth type of memory, called “External Card”.

Backing up data to different memory types

Generally, you should not save photos, videos and other personal content solely on the internal memory of a phone. If something should happen with the hardware, or if the phone is lost or stolen, the data stored on the phone’s internal memory is gone forever.

In a product featuring Internal Storage as the main memory, it is not possible to physically remove the memory. Instead, any critical or high-value content must either be copied to an external SD card by a special backup application, transferred to remote storage over a network (mobile or Wi-Fi), or to a computer via a USB cable.

To facilitate the transfer of data via a cable, the Xperia™ SP supports the Microsoft standard, Media Transfer Protocol (MTP), which makes it possible to easily transfer content back and forth between your phone and a Windows PC. For Apple Mac computers, a special application, BridgeforMac, is available offering built-in support for MTP; this application can be downloaded from the Xperia™ SP Support page.

Note that you do not need to back up or make a copy of applications that you have downloaded from Google Play™*. They can normally be downloaded again if, once you have set up your Google account to work in a new phone (or a phone where the memory has been completely erased).

Note 1:

As noted above, some Android phones, including Sony Mobile devices from 2012, and Sony Ericsson devices from 2011 and earlier, do not use a single “Internal Storage” for both applications (and their data) and user content. Instead, these devices use either an external SD card for user content, or a corresponding area of internal memory to reproduce the functionality of an SD card. In such devices, there is a fixed limit between the application area (“/data”) and the user content area (“/sdcard”); with the result that user content can be filled, stopping the taking of new pictures for example, while there is still considerable free space in the application area; or vice versa, stopping the download and installation of new applications even though there is free memory in the content area.

Note 2:

Some devices with an integrated storage have abandoned the distinction between the application area and the content area when it comes to Factory Data Reset. As a result, there is no choice to do Factory Data Reset and preserve content; in such devices, all content is mandatorily and completely deleted from the device when a reset is performed.

In contrast, Sony Mobile has done the integration in a manner which makes it possible to preserve user content in this situation; therefore, when performing a Factory Data Reset, the default will still be to only remove applications and their data, and an option box must be checked if also all content is to be removed (as might be desirable when selling the device second-hand, for instance).

Note 3:

For a developer, it is important to note that from a programmer’s point of view, the location names used to refer to the different memory areas described in Note 1 are still valid; i.e., the area used for application (/data) is still present, as is the area used for content (/sdcard).

In reality, “sdcard” is a so-called symbolic link to “/data/media”, but from inside an Android application, “/sdcard” can still be used (for instance, use “sdcard/DCIM/100Android” to find all camera images). Continuing to use /sdcard to access the content area ensures compatibility across different products and Android releases in this regard.

Trademarks and acknowledgements

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